

Table 3 Approved Methods for Soil Analyses for Non-UST Releases of Petroleum

Suspected Contaminant	Analytical Methods for Preliminary Investigation Samples	Analytical Methods for Samples Collected after Preliminary Investigation
1a. Low Boiling Point Fuels: gasoline, aviation gasoline' etc. ^a	EPA 8015C for TPH-GRO (or UVF for TPH)^b	EPA 8260B and MADEP VPH
1b. Ethanol-Gasoline Blends	EPA 8015C for TPH-GRO (or UVF for TPH)^b and EPA 8260B	
2. Medium/High Boiling Point Fuels: jet fuels, kerosene, diesel, fuel oil #2, biodiesel (containing diesel), etc. Varsol, mineral spirits, naphtha.	EPA 8015C for TPH-GRO and EPA 8015C for TPH-DRO (or UVF for TPH)^b	EPA 8260B, EPA 8270D, MADEP VPH, and MADEP EPH
3. Heavy Fuels: #4, #5, #6 fuel oils, motor oil, hydraulic fluid, etc. Mineral oil ^c	EPA 8015C for TPH-DRO (or UVF for TPH)^b	EPA 8270D and MADEP EPH
4. Used / Waste Oil	EPA 8260B, EPA 8270D, MADEP VPH, MADEP EPH, (or UVF for TPH and PAH)^b and EPA 3050B or 3051A Prep: Total Metals (Cr and Pb), EPA 8081B (pesticides), and EPA 8082A (PCBs) ^d	EPA 8260B, EPA 8270D, MADEP VPH, MADEP EPH, EPA 3050B or 3051A Prep: Total Metals (Cr and Pb), EPA 8081B (pesticides), and EPA 8082A (PCBs) ^c

- a Analyze for Pb, EPA 3050B or 3051A Prep: Total Metals (Pb). Rev. 0412
- b Only UVF technology with product (fuel) identification and calibration approved by DWM is allowed. (Other methods for TPH analysis may be approved by DWM for the initial investigation if determined to meet all requirements.)
- c Carbon chains in mineral oils range from approximately C₁₂-C₄₅.
- d Analyses for PCBs and pesticides are not required for service station/garage waste oil investigations.